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L I S T
OF
BULLETINS AND CIRCULARS
ISSUED BY THE
U. S. DEPARTMENT OF AGRICULTURE
AND AVAILABLE FOR
FREE DISTRIBUTION
IN THE UNITED STATES.

Corrected to July 1, 1905.

NOTES REGARDING DEPARTMENT PUBLICATIONS.

The publications of the U. S. Department of Agriculture are mainly of three general classes:

I. Publications issued annually, comprising the Yearbook, the Annual Report of the Department, the Annual Report of the Bureau of Animal Industry, the Annual Report of the Office of Experiment Stations, the Field Operations of the Bureau of Soils, and the Annual Report of the Weather Bureau.

II. Other departmental reports, divisional bulletins, etc. Of these, each bureau, division, and office has its separate series in which the publications are numbered consecutively as issued. They comprise reports and discussions of a scientific or technical character.

III. Farmers' bulletins, divisional circulars, reprinted Yearbook articles, and other popular papers.

The publications in Class I are distributed by the Department and by Senators, Representatives, and Delegates in Congress. For instance, of the 500,000 copies of the Yearbook usually issued, the Department is allotted only 30,000, while the remaining 470,000 copies are distributed by Members of Congress. The Department's supply of the publications of this class is, therefore, limited, and consequently has to be reserved almost exclusively for distribution to its own special correspondents, and in return for services rendered.

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A limited supply of nearly all the publications in Classes I and II is, in compliance with the law, placed in the hands of the Superintendent of Documents for sale at cost of printing. Application for these should be addressed to the **Superintendent of Documents, Government Printing Office, Washington, D. C.**, and should be accompanied by postal money order, payable to him, for the amount of the price. No postage stamps or private checks should be sent. The Superintendent of Documents is not permitted to sell more than **one copy** of any public document to the same person. The Public Printer may sell to one person any number not to exceed 250 copies if ordered before the publication goes to press.

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The Department has no list of persons to whom all publications are sent. The monthly list, issued on the first day of each month, will be mailed regularly to all who apply for it. The Department also issues and sends out to all who apply for them a complete list of all the Department's publications for sale by the Superintendent of Documents.

United States Department of Agriculture.

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., July 1, 1905.

Copies of the publications in the accompanying list will be sent free, so long as the editions permit, on application to the Secretary of Agriculture, Washington, D. C. Applications for Farmers' Bulletins may also be sent to Senators, Representatives, and Delegates in Congress, each of whom has a quota of several thousand copies for distribution among constituents. Applications from residents in foreign countries should be sent to Superintendent of Documents, Government Printing Office, Washington, D. C.; price per copy 6 cents, including postage.

The Farmers' Bulletins and Circulars of Information issued by the U. S. Department of Agriculture are printed in large editions and are for free distribution, the object being to supply farmers and others interested in agriculture and kindred subjects with condensed and practical information. It is expected, however, that applicants will ask for only such publications as are likely to be of special interest to them, and not with a view to getting complete sets, which might embrace many bulletins and circulars of no use to them, but which would be of great value to some one else. If applicants will bear this fact in mind, they will greatly aid the Department in its efforts to make the widest and at the same time the most useful distribution of its publications.

GEO. WM. HILL,
Editor and Chief.

BULLETINS AND CIRCULARS FOR FREE DISTRIBUTION.

FARMERS' BULLETINS.

No. 22, second revision.—The Feeding of Farm Animals. Pp. 40.

CONTENTS: Principles of feeding—Composition of the animal body—Composition and digestibility of feeding stuffs—Feeding standards for different kinds of animals—Calculation of rations—Selection of feeding stuffs—Preparation of food for animals—Feeding for fat and for lean—Wheat as a food for animals—Table showing composition of feeding stuffs.

No. 24.—Hog Cholera and Swine Plague. Pp. 16.

CONTENTS: General characters—Symptoms—Appearance on post-mortem examination—The cause of these diseases—Diagnosis and prognosis—Formula for remedy for hog cholera and swine plague—Prevention of disease by proper breeding and feeding.

No. 25.—Peanuts: Culture and uses. Pp. 24, fig. 1.

CONTENTS: Description and history—Composition—Varieties—Climate and soil suitable for peanut culture—Manuring—Culture—Harvesting—Uses.

No. 27.—Flax for Seed and Fiber in the United States. Pp. 16.

CONTENTS: Can both seed and fiber be saved?—Soil selection and preparation—Fertilizing—Rotation—Kind and quantity of seed to sow—Weeds—Harvesting the fiber—Saving the seed—Retting the straw—The “American practice.”

No. 28, revised.—Weeds: And How to Kill them. Pp. 32, figs. 11.

CONTENTS: General methods of eradicating weeds—List of weeds attracting special attention during 1894—Table of one hundred weeds.

No. 29.—Souring of Milk and Other Changes in Milk Products.
Pp. 23.

CONTENTS: Composition of milk—Causes of fermentation—Sources, number, and kinds of dairy bacteria—The souring of milk—Supposed effect of thunderstorms—Other forms of fermentation—Fermentation of milk by rennet.

No. 30.—Grape Diseases on the Pacific Coast. Pp. 15, figs. 3.

CONTENTS: California vine disease—Powdery mildew—Coulure.

No. 32, revised.—Silos and Silage. Pp. 32, figs. 6.

CONTENTS: Historical—Construction and cost of silos—Selection and culture of silage crops—Filling the silo—Cost of silage—Composition and feeding value of silage—Feeding silage to farm stock.

No. 33.—Peach Growing for Market. Pp. 24, figs. 21.

CONTENTS: Where peaches can be grown—Planting within easy reach of large markets—Extent of peach lands in the United States—Planting and cultivation of the orchard—Pruning—Fertilizers—Fungous diseases and insect pests—Spraying, washing, etc.—Picking and marketing the fruit—Gluts in the market—Hindrances to profitable peach culture.

No. 34.—Meats: Composition and Cooking. Pp. 29, figs. 4.

CONTENTS: Animal and vegetable foods compared—Structure, composition, texture (toughness), flavor, and digestibility of meats—The cooking of meats—Cuts of meats—Fuel value of meats.

No. 35.—Potato Culture. Pp. 24, figs. 2.

CONTENTS: Soil and rotation—Manuring—Varieties—Time to cut seed potatoes—Quantity of seed potatoes per acre—Weight and number of eyes per set—Number of cuttings and stalks per hill—Cultivation—Mulching—Harvesting and storing—Second-crop potatoes.

No. 36.—Cotton Seed and Its Products. Pp. 16.

CONTENTS: Cotton seed—Method of manufacturing cotton-seed products—Cotton-seed oil, meal, and hulls—Cotton-seed-hull ash—Feeding cotton-seed products to farm stock—Effect on health of animals.

No. 37.—Kafir Corn: Characteristics, Culture, and Uses. Pp. 12, fig. 1.

CONTENTS: Varieties—Soils and climate—Preparation of the soil—Methods of seeding—Cultivation and harvesting—Yield—Composition—Practical feeding tests.

No. 38.—Spraying for Fruit Diseases. Pp. 12, figs. 6.

CONTENTS: Fungicides, or remedies for plant diseases—Applying fungicides—Treatment of grape, apple, pear, quince, cherry, and plum diseases.

No. 39.—Onion Culture. Pp. 31, figs. 3.

CONTENTS: Selection and preparation of soil—Fertilizing—Seed and varieties—Growing onions from sets and from seeds sown in the field—Transplanting—Cultivation and weeding—Irrigation—Harvesting—Storing—Production of seed—Two important enemies of the onion.

No. 41.—Fowls: Care and Feeding. Pp. 24, figs. 4.

CONTENTS: Site for building and yards—Construction of houses—Perches, nests, drinking fountains, dust boxes, etc.—Breeds and breeding—Feeding—Brooders and incubators—Diseases and lice—Dressing and shipping.

No. 42.—Facts about Milk. Pp. 29, figs. 8.

CONTENTS: The dairy industry—Composition and causes of variation in milk—Difficulties in obtaining pure milk—Changes in milk—Care of milk—Detecting impure milk—Town and city milk supply.

No. 43.—Sewage Disposal on the Farm and the Protection of Drinking Water. Pp. 20, figs. 8.

CONTENTS: Methods of disposal of different kinds of sewage—Protection of drinking water—Ways of contamination of water—Construction of wells.

No. 44.—Commercial Fertilizers: Composition and Use. Pp. 24.

CONTENTS: Need of commercial fertilizers—Fertilizer requirements of different soils and crops—Forms, sources, and composition of fertilizing materials—Agricultural vs. commercial value of fertilizers—Purchase of fertilizers and conditions under which they may be properly used—Kinds to use—How to apply.

No. 45, revised.—Some Insects Injurious to Stored Grain. Pp. 24, figs. 18.

CONTENTS: Grain weevils—Grain moths—Flour and meal moths—Flour beetles—Meal worms—Grain beetles—The cadelle—Parasites and natural enemies—Methods of control: Preventive measures; insecticides and other destructive agencies; the bisulphid of carbon treatment; summary of principal remedies.

No. 46.—Irrigation in Humid Climates. Pp. 27, figs. 4.

CONTENTS: The advantages of an abundant supply of soil moisture—The rainfall of the growing season in the United States is insufficient for maximum yield—Extent of irrigation in the humid parts of Europe—The rainfall of Europe and the eastern United States compared—Fertilizing value of irrigation waters—Lands best suited to irrigation in humid climates—Methods of obtaining water for irrigation—The construction of reservoirs—Methods of applying irrigation water.

No. 47.—Insects Affecting the Cotton Plant. Pp. 32, figs. 18.

CONTENTS: The cotton worm, or cotton caterpillar—The cotton bollworm—The Mexican cotton boll weevil—Other cotton insects.

No. 48.—The Manuring of Cotton. Pp. 16.

CONTENTS: The draft of the cotton plant upon the fertility of the soil—Experiments in the manuring of cotton.

No. 49.—Sheep Feeding. Pp. 24.

CONTENTS: Feeding breeding ewes—Feeding lambs intended for breeding purposes—Feeding lambs for market.

No. 50, revised.—Sorghum as a Forage Crop. Pp. 20, fig. 1.

CONTENTS: General characteristics and origin—Extent of cultivation in the United States—Varieties—Conditions of growth—Methods of culture—Yield—Value of forage—Chemical composition and digestibility—Objections sometimes urged against sorghum as a forage crop.

No. 51, revised.—Standard Varieties of Chickens. Pp. 48, figs. 42.

Enumerates, describes, and illustrates forty-four varieties of chickens, and recites their respective points of superiority and general utility.

No. 52, second revision.—The Sugar Beet. Pp. 48, figs. 24.

CONTENTS: Climatic conditions affecting the growth of the sugar beet—The theoretical sugar-beet belt of the United States—Growth of beets on irrigated lands—Varieties of beets—Soils—Fertilization—Precautions to be observed in applying stable manure—Preparation of the land for planting—Planting—Cultivation—Cost of growing beets—Harvesting—Siloing—Domestic production of beet seed—Comparative value of domestic and foreign-grown seed—Manufacture of sugar—Home consumption of sugar—Waste products—Cost of manufacture—Cost of factory—Cooperative factories—Statistical information.

No. 54, revised.—Some Common Birds in Their Relation to Agriculture. Pp. 48, figs. 22.

CONTENTS: The cuckoos—The woodpeckers—The kingbird—The phœbe—The bluejay—The crow—The bobolink, or rice bird—The red-winged blackbird—The meadow lark, or old field lark—The Baltimore oriole—The crow blackbird—The sparrows—The rose-crested grosbeak—The swallows—The cedarbird—The catbird—The brown thrasher—The house wren—The robin—The bluebird.

No. 55, revised.—The Dairy Herd: Its Formation and Management. Pp. 31.

CONTENTS: Cattle for the dairy—Pure-bred dairy cattle and grades—The bull and his treatment—Accommodations for the herd—Health of the herd—Fall-fresh cows most profitable—Drying off cows and calving time—Abortion and milk fever—Care of calves and young stock—The pasture season and soil-ing—The stabling season—Feeding the herd.

No. 56.—Experiment Station Work—I. Pp. 31, figs. 10.

CONTENTS: Good vs. poor cows—Corn vs. wheat—Effects of rations richer and poorer in protein—Forage crops for pigs—Robertson silage mixture—Alfalfa—Effect of fertilizers on the proportion of grain to straw and stover—Comparative fertilizing value of the different phosphates—The harmful effects on soils of the continued use of muriate of potash—Recent progress in the study of irrigation—Potato scab—Barnyard manure—Explanation of terms.

No. 57, revised.—Butter Making on the Farm. Pp. 20.

CONTENTS: Good milk—Creaming the milk—Deep cold-setting—The farm separator—Ripening cream—The churn—Churning—White specks in butter—Coloring butter—Salting and working butter—Make butter to suit the customer.

No. 58, revised.—The Soy Bean as a Forage Crop. With an Appendix on Soy Beans as Food for Man. Pp. 24, figs. 5.

CONTENTS: General characteristics and origin—Varieties—Methods of cul-ture—Harvesting—Yield—Chemical composition—Digestibility—Value and uses—Appendix: Soy beans as food for man.

No. 59, revised.—Bee Keeping. Pp. 47, figs. 19.

CONTENTS: Locations suited to the keeping of bees—The returns to be expected from an apiary—Anyone who desires to do so can learn to manipulate bees—How to avoid stings—What hive to adopt—Management in swarming—Special crops for honey alone not profitable—How to obtain surplus honey and wax—The wintering of bees—The risk of loss through disease and enemies.

No. 60, second revision.—Methods of Curing Tobacco. Pp. 16.

CONTENTS: Curing the Northern cigar tobacco—Curing tobacco in Florida—Curing White Burley tobacco—Curing bright yellow tobacco—Curing export tobacco—Marketing tobacco—Types of tobacco.

No. 61.—Asparagus Culture. Pp. 40, figs. 17.

CONTENTS: History—Botany and varieties—Production of plants from seed—Selection and preparation of soils—Planting and cultivation—Manuring beds—Cost of an asparagus bed—Harvesting and marketing—Canning—Dry-ing—Fungous diseases—Insect enemies.

No. 62.—Marketing Farm Produce. Pp. 28, figs. 7.

CONTENTS: The trade in farm produce—General rules—Packing—The com-mission merchant—Particular directions: Butter, eggs, poultry and game, meats, potatoes, small fruits, vegetables, and honey.

No. 63.—Care of Milk on the Farm. Pp. 40, figs. 9.

CONTENTS: Dairy bacteria—How milk becomes impure—How to keep milk pure—Fifty dairy rules.

No. 64.—Ducks and Geese: Standard Breeds and Management. Pp. 48, figs. 37.

CONTENTS: Standard breeds of ducks—Management of ducks—Standard breeds of geese—Management of geese.

No. 65.—Experiment Station Work—II. Pp. 32, figs. 7.

CONTENTS: Common crops for forage—Stock melons—Starch in tomatoes—Crimson clover—Geese for profit—Cross pollination—A germ fertilizer—Lime as a fertilizer—Are ashes economical?—Mixing fertilizers.

No. 66, revised.—Meadows and Pastures: Formation and Cultivation in the Middle Eastern States. Pp. 28, figs. 9.

CONTENTS: General prevalence and commercial value of grasses—Grasses as soil builders—Fertilizers for grass lands—Methods of preparing the soil—Sowing the seed—Varieties of grasses and clovers—Some grass mixtures.

No. 68.—The Black Rot of the Cabbage. Pp. 22, fig. 1.

CONTENTS: Nature and prevalence of the disease—Sources of infection—Suggestions for prevention—Prompt marketing—Storage—No danger from eating affected cabbages—Synopsis of rules for prevention.

No. 69.—Experiment Station Work—III. Pp. 32, figs. 2.

CONTENTS: Flax culture—Crimson clover—Forcing lettuce—Heating greenhouses—Corn smut—Millet disease of horses—Tuberculosis—Pasteurized cream—Kitchen and table wastes—Use of fertilizers.

No. 70.—The Principal Insect Enemies of the Grape. Pp. 23, figs. 12.

CONTENTS: The grapevine phylloxera—The grapevine fidia—The grape cane-borer—The grapevine flea beetle—The rose-chafer—The grape leaf-folder—Hawk moths and cutworms—The grape leaf-hopper—The grape berry moth.

No. 71.—Some Essentials in Beef Production. Pp. 24, figs. 17.

CONTENTS: The beef type—The use of the score card—Beef characteristics briefly defined—Selection of store or stock cattle for feeding—Breeding type vs. the block—Excellence for the block due to inherited quality rather than feed or grain—The types compared—Early maturity—The passing of the heavy-weight carcass—The economy of gain at different ages compared.

No. 72.—Cattle Ranges of the Southwest: A History of the Exhaustion of the Pasturage and Suggestions for its Restoration. Pp. 32, figs. 9.

CONTENTS: Early use and present condition of Texas pastures—Obstacles to renewal or improvement of the ranges—How the stock ranges may be renewed.

No. 73.—Experiment Station Work—IV. Pp. 32, figs. 3.

CONTENTS: Pure water—Loss of soil fertility—Availability of fertilizers—Seed selection—Jerusalem artichokes—Kafir corn—Thinning fruit—Use of low-grade apples—Cooking vegetables—Condimental feeding stuffs—Steer and heifer beef—Swells in canned beef.

No. 74.—Milk as Food. Pp. 39, charts 2.

CONTENTS: Food and its functions—Composition, characteristics, properties, variations, nutritive value, and digestibility of milk—Skim milk—Cream—Butter—Nutritive value of milk as compared with other foods—Use of milk with other foods—Nutritive value of milk and its cost—Daily menus containing milk.

No. 75.—The Grain Smuts: How They are Caused and How to Prevent Them. Pp. 20, figs. 8.

CONTENTS: Kinds of smut—Directions for treating seed for smut—Directions for drying treated seed—Extra increase in yield as a result of seed treatment—Duty of seedsmen.

No. 77, revised.—The Liming of Soils. Pp. 19.

CONTENTS: The use of lime for improving soils—Direct manurial action and chemical action of lime on soils—Physical effect of liming—The effect of lime on the action of microscopic organisms in the soil—Liming sometimes injurious—Plants benefited and plants injured by liming—Influence of lime upon some plant diseases—How often should liming be practiced?—When and how to apply lime—Forms of lime used for agricultural purposes.

No. 78.—Experiment Station Work—V. Pp. 32, figs. 2.

CONTENTS: Humus in soils—Swamp, marsh, or muck soils—Rape—Velvet bean—Sunflowers—Winter protection of peach trees—Subwatering in greenhouses—Bacterial diseases of plants—Grape juice and sweet cider.

No. 79.—Experiment Station Work—VI. Pp. 28, figs. 2.

CONTENTS: Fraud in fertilizers—Sugar-beet industry—Seeding grass land—Grafting apple trees—Forest fires—American clover seed—Mushrooms as food—Pigs in stubble fields—ensiling potatoes—Anthrax.

No. 80.—The Peach Twig-Borer: An Important Enemy of Stone Fruits. Pp. 16, figs. 5.

CONTENTS: Recent studies of the insect—History and distribution—Life history and habits—The strawberry crown-miner a distinct insect—Natural parasites—Remedies and preventives.

No. 81.—Corn Culture in the South. Pp. 24.

CONTENTS: The soil and its preparation—Rotation—Fertilizers—Varieties—Planting—Cultivation—Harvesting and storing the crop—Saving seed.

No. 82.—The Culture of Tobacco. Pp. 24.

CONTENTS: Selecting the seed—The seed bed and how prepared in the different tobacco districts—Sowing the seed—Time of sowing the seed—Planting—Cultivation—Fertilizers—Topping—Cutting—Saving seed—Insect pests.

No. 83.—Tobacco Soils. Pp. 23, fig. 1.

CONTENTS: Climate and distribution of tobacco—Soils of the several districts—Water content of tobacco soils.

No. 84.—Experiment Station Work—VII. Pp. 32, figs. 8.

CONTENTS: Home-mixed fertilizers—Forcing asparagus in the field—Field selection of seed—Potatoes as food—Corn stover as a feeding stuff—Feeding value of sugar beets—Salt marsh hay—Forage crops for pigs—Ground grain vs. whole grain for chicks—Skim milk for young chickens—By-products of the dairy—Stripper butter—Curd tests in cheese making—Gape disease of chickens.

No. 85, revised.—Fish as Food. Pp. 30.

CONTENTS: Preparing fish for market—Nutritive value of fish—Place of fish in the diet—Preparing fish for the table—Daily menus containing fish—Possible dangers from eating fish.

No. 86.—Thirty Poisonous Plants of the United States. Pp. 32, figs. 24.

CONTENTS: Names, descriptions, and poisonous character of the most important poisonous plants; locality where found; symptoms of poisoning.

No. 87.—Experiment Station Work—VIII. Pp. 32, figs. 6.

CONTENTS: Soil moisture—Fertility of soil—Cover crops for orchards—Cultivating vs. cropping orchards—Transplanting trees—Fecundity of swine—Food value of eggs—Starch from sweet potatoes—The toad as a friend of the farmer.

No. 88.—Alkali Lands. Pp. 23, fig. 1.

CONTENTS: Conditions in the Yellowstone Valley—Rainfall and seepage—How salt determinations are made—Kinds of soil in the valley—Effects of underdrainage.

No. 89.—Cowpeas. Pp. 16, fig. 1.

CONTENTS: Varieties—Soil renovation—cultivation and harvesting—Cowpeas for forage and for silage—Harvesting the seed—Feeding value.

No. 91.—Potato Diseases and Their Treatment. Pp. 12, figs. 4.

CONTENTS: Potato leaf blight or early blight—Potato blight, late blight, or rot—Brown rot—Potato scab—Tip burn, leaf burn, or scald—Arsenical poisoning of potato leaves.

No. 92.—Experiment Station Work—IX. Pp. 30.

CONTENTS: Sugar beets on alkali soils—Planting and replanting corn—Improvement of sorghum by selection—Improved culture of potatoes—Second-crop potatoes for seed—Cold vs. warm water for plants—Soils and fertilizers for forcing head lettuce—The date palm in the United States—Recent studies on the codling moth—Jerusalem artichokes for pigs—Supplements to skim milk in fattening calves—Pasteurization of milk for butter making—Gassy and tainted curds—Pure cultures of bacteria for cheese making—Explanation of terms used in discussing fertilizers, foods, feeding stuffs, etc.

No. 93.—Sugar as Food. Pp. 27.

CONTENTS: Extent of use—Chemical composition—Characteristics of cane sugar and of other kinds—The sugar cane—The sugar beet—The sugar maple—Quality of sugar from different sources—Food value of sugar—Digestion of sugar—Sugar as a flavor—Food value of molasses—Practical use of sugar in dietaries of adults—Bad effects ascribed to sugar—Effect of exercise on the amount of sugar which may be eaten—Sugar in cooked foods—Confectionery—Sugar in the dietaries of children.

No. 94.—The Vegetable Garden. Pp. 24, figs. 8.

CONTENTS: Location—Drainage—Preparation of soil—Supply of seeds and young plants—Planting—Cultivation—Insecticides—Directions for several vegetables.

No. 95.—Good Roads for Farmers. Pp. 47, figs. 49.

CONTENTS: Location, grading, and drainage of roads—Kinds of roads—Road materials—How to build roads—Road-building machinery—Cost of roads.

No. 96.—Raising Sheep for Mutton. Pp. 48, figs. 18.

CONTENTS: Experiments in producing mutton—Principal mutton breeds compared—Lambs preferred in the markets—Method of cutting mutton—Dipping for scab—What constitutes a good sheep—Estimates of a good fleece—General notes on sheep feeding.

No. 97.—Experiment Station Work—X. Pp. 32, figs. 5.

CONTENTS: Manure from cows—Plants for alkali soils—Influence of alkali on plants—Feeding value of the corn plant—Sows and pigs at farrowing time—The soy bean as a feeding stuff—Alfalfa hay for hogs—Animal matter for poultry—Water and animal diseases—Construction and cooling of cheese-curing rooms—Irrigation investigations.

No. 98.—Suggestions to Southern Farmers. Pp. 48.

Summaries of addresses delivered at an Interstate Farmers' Convention held at Vicksburg, Miss., February 8–10, 1899. They relate to soils, the peculiar advantages of the South for growing forage crops, raising and feeding live stock, cotton seed and its products, and other agricultural matters.

No. 99.—Three Insect Enemies of Shade Trees. Pp. 30, figs. 11.

CONTENTS: The imported elm-leaf beetle—The white-marked tussock moth—The fall webworm—Food plants—Remedies—Relative immunity from insect attack of different varieties of shade trees.

No. 100.—Hog Raising in the South. Pp. 40.

CONTENTS: Suitable location—Water—Building—Breeds and breeding—Feeds and feeding—Diseases and Treatment—Experiences of successful hog raisers.

No. 101.—Millets. Pp. 28, figs. 6.

CONTENTS: Foxtail millets—Barnyard millets—Broomcorn millets—Culture of millets—Uses and feeding value—Fertilizing value.

No. 102.—Southern Forage Plants. Pp. 48, figs. 14.

CONTENTS: Formation and care of pastures—Soiling and fodder crops—The more important hay and pasture plants: Grasses; leguminous forage plants; miscellaneous forage plants.

No. 103.—Experiment Station Work—XI. Pp. 32, figs. 5.

CONTENTS: Excessive irrigation—Cross pollination of plums—Root pruning of fruit trees—The oxeye daisy—Poisoning by wild cherry leaves—Preserving eggs—Gestation in cows—The long clam—Silage for horses and hogs—Commercial butter culture with pasteurized cream—The stave silo.

No. 104.—Notes on Frost. Pp. 24.

CONTENTS: How frost is formed—Seasons of frost—When to expect frost—Protection from frost, devices, etc.—General observations.

No. 105.—Experiment Station Work—XII. Pp. 32, figs. 4.

CONTENTS: Seaweed—The tillering of grain—Fertilizers for garden crops—Sweet corn and pole beans under glass—Girdling grapevines—Cereal breakfast foods—Food value of stone fruits—When to cut alfalfa—Spontaneous combustion of hay—Preservation of milk by pressure—Cream raising by dilution.

No. 106.—Breeds of Dairy Cattle.—Pp. 48, figs. 21.

Gives names, numbers, history, descriptions, and illustrations of all the principal breeds of dairy cattle in the United States.

No. 107.—Experiment Station Work—XIII. Pp. 32, figs. 3.

CONTENTS: Fertilizer requirements of crops—Persimmons—Forcing rhubarb—Grinding corn for cows—Waste in feeding corn stalks—Molasses for farm animals—Feeding ducks—Cost of raising calves—Feeding calves with milk of tuberculous cows—Killing the germs of tuberculosis in milk—Ropy milk and cream—Dairy salt.

No. 108.—Saltbushes. Pp. 20, figs. 9.

CONTENTS: General characteristics—Distribution of seed—Introduced saltbushes—American saltbushes—Composition and food value—Miscellaneous alkali plants—Alkali and alkali soils.

No. 109.—Farmers' Reading Courses. Pp. 20.

CONTENTS: Origin and purpose—Development in Pennsylvania, Michigan, New Hampshire, Connecticut, New York, West Virginia, and South Dakota—Publications on agriculture used or recommended in farmers' reading courses.

No. 110.—Rice Culture in the United States. Pp. 28.

CONTENTS: Varieties of rice—Production and importation—Rice lands—Rice soils—Irrigation—Methods of culture—Harvesting—Milling—Rice as a food—By-products—Rice culture in southwestern Louisiana and southeastern Texas.

No. 111.—The Farmer's Interest in Good Seed. Pp. 24, figs. 7.

CONTENTS: Relation between quality of seed and amount to sow per acre—Weed seeds sown on the farm—Low-priced seed may be expensive—Results of some tests—How to secure good seed.

No. 112.—Bread and the Principles of Bread Making. Pp. 39, figs. 3.

CONTENTS: Grains and flours—Yeast and other leavening agencies—Raised bread—Special breads—Household methods of bread making—Imperfections and impurities in bread—Nutritive value and cost of bread.

No. 113, revised.—The Apple and How to Grow It. Pp. 32, figs. 10.

CONTENTS: Uses of the apple—Propagation: Budding, grafting, etc.—Locating an orchard—Drainage and fertilizing—Planting—Selection of trees—Lists of varieties suited to large areas.

No. 114.—Experiment Station Work—XIV. Pp. 28, figs. 5.

CONTENTS: Influence of salt and similar substances on soil moisture—Extra early potatoes—Rotting of cranberries—Chestnuts—Low-grade Paris green—Crude petroleum as insecticide—Skim milk in bread making—Best number of hens in one pen—Nest box for egg records—Profitable and unprofitable cows.

No. 115.—Hop Culture in California. Pp. 28, figs. 2.

CONTENTS: Varieties of hops—Where grown and yield per acre—Methods of culture—Systems of training—Harvesting and curing—Baling and marketing—Prices and wages—Hop statistics.

No. 116.—Irrigation in Fruit Growing. Pp. 48, figs. 8.

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CONTENTS: The specific steps to secure early maturity—The preparation of the soil—Fertilizers—Selecting the variety and planting—Spacing the plants—Cultivating the crop—Clearing away the plants in the autumn.

No. 218.—The School Garden. Pp. 40, figs. 33.

CONTENTS: Value of school garden work—The individual school garden—Type of plants for the garden—A vegetable garden—Rotation of crops—Combination vegetable and flower garden—Cultural suggestions—Vegetables—Flowering plants—Laboratory exercises—Studies of soil—Studies of plants—Studies of roots—Studies of stems—Studies of leaves—Studies of cuttings—Studies of grafts—Studies of budding—Window boxes for schoolrooms—Specimen plants for schoolrooms—The decoration of school grounds.

No. 219.—Lessons from the Grain-Rust Epidemic of 1904. Pp. 24, figs. 6.

CONTENTS: The nature of the rust doing the damage—Reasons for unusual abundance of rust in 1904—Planting seed damaged by rust—The use of rusted straw in stock feeding—Varieties of cereals resistant to rust—Early varieties of grain that escape rust—The importance of growing hard winter wheats—Seed selection with reference to rust resistance—Drainage and clean cultivation—Infection from rusted grasses.

No. 220.—Tomatoes. Pp. 32, figs. 13.

CONTENTS: Types of tomatoes—Lengthening the growing season—The tomato as a field crop at the North—The tomato as a field crop at the South—Forcing tomatoes—Type of greenhouse—The tomato as a field crop for canneries—The diseases of the tomato.

No. 221.—Fungous Diseases of the Cranberry. Pp. 16, figs. 11.

CONTENTS: Diseases: Cranberry blast; Cranberry scald; Cranberry rot; Cranberry anthracnose—Remedies and treatment—Fungicides—Methods of application—Cost of treatment.

No. 222.—Experiment Station Work—XXVIII. Pp. 32, fig. 1.

CONTENTS: Home mixing of fertilizers—Growing sweet-corn seed in the South—Kherson oats—Cowpea hay—Weight per quart of feeding stuffs—Suggestions regarding grain rations—Recent horse-feeding tests—Market classes and grades of swine—Silage in place of grain for dairy cows.

No. 223.—Miscellaneous Cotton Insects in Texas. Pp. 23, figs. 29.

CONTENTS: Cutworms—Plant-lice—The garden webworm—The white-lined sphinx caterpillar—Grasshoppers—Wingless May beetles—The salt-marsh caterpillar—The arge tiger moth—The beet army worm—The fall army worm—The Io moth—The cotton-boll cutworm—Leaf-cutting ant—The stalk borer—The cotton stalk borer—The snowy tree cricket—The cotton square borer—Cotton “sharpshooters”—The cotton leaf-bug—Other plant-bugs—Click-beetle—The cowpea-pod weevil—*Bruchus amicus* Horn—Acorn weevils—Blister beetles.

No. 224.—Canadian Field Peas. Pp. 16, figs. 4.

CONTENTS: Various uses of the pea crop—Why the pea crop has been neglected—Areas adapted to pea culture in the United States—Growing peas for different purposes—How the peas are grown.

No. 225.—Experiment Station Work.—XXIX. Pp. 32, figs. 6.

CONTENTS: Injury to agriculture by smoke and gases—Incompatibles in fertilizer mixtures—Value of flint varieties of corn—Buying and judging seed corn—Tobacco seed—Cowpea seed—Treating seed oats for smut—Potato culture—Further points in tomato growing—Influence of feed on milk—Protecting cows from flies—Recent experiments with turkeys—Grit and mineral matter for chickens—A successful brooder house—Camembert cheese making in the United States—Prevention of swelling in canned peas.

No. 226.—The Relation of Coyotes to Stock Raising in the West.

Pp. 24, fig. 1.

CONTENTS: General habits of coyotes—Food of coyotes—Destruction of coyotes—Protection against coyotes.

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In Making Requests for these Circulars always give the Name of the Bureau or Division Publishing Same, as well as the Number of the Circular Desired.

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Circular No. 2.—Hairy Vetch, Sand Vetch, or Russian Vetch (*Vicia villosa*). Pp. 4, fig. 1.

Circular No. 3.—Saltbushes. Pp. 4, figs. 3.

Circular No. 4.—The Renewing of Worn-out Native Prairie Pastures. Pp. 4, figs. 4.

Circular No. 6, revised.—The Cultivated Vetches. Pp. 8, figs. 6.

Circular No. 8.—Experiments in Range Improvement. Pp. 5, fig. 1.

Circular No. 11.—The Flat Pea. Pp. 6, figs. 3.

Circular No. 12.—Rape as a Forage Plant. Pp. 6, fig. 1.

Circular No. 13.—Florida Beggar Weed. Pp. 5, figs. 2.

Circular No. 14.—The Velvet Bean. Pp. 5, figs. 3.

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Circular No. 21.—Cooperative Range Grass and Forage-Plant Experiments at Highmore, S. Dak. Pp. 10, fig. 1.

Circular No. 22.—Grass and Forage-Plant Investigations on the Pacific Coast. Pp. 7.

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Circular No. 25, revised.—Turkestan Alfalfa. Pp. 20.

Circular No. 26.—Rescue Grass. Pp. 4, fig. 1.

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Circular No. 32.—Some Arizona Grasses. Pp. 10.

Circular No. 33.—Range Grass and Forage-Plant Experiments at Highmore, S. Dak. Pp. 5.

Circular No. 34.—Aristida Purpurea Nutt (Beard Grass). Pp. 8.

Circular No. 35.—Agrostological Notes, 1901. Pp. 6.

BUREAU OF ANIMAL INDUSTRY.

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Circular No. 3.—Nodular Tæniasis of Fowls. Pp. 3.

Circular No. 5.—The direct Transmission of Infectious Enteritis in Turkeys. Pp. 8.
This circular discusses the nature of the disease sometimes called blackhead.

Circular No. 7.—Actinomycosis, or Lumpy Jaw. Pp. 4.

Circular No. 8.—Injuries to Cattle from Swallowing Pointed Objects. Pp. 4.

Circular No. 19.—Factory Cheese and How it is Made. Pp. 8.

Circular No. 23, second revision.—Directions for the Use of Blackleg Vaccine. Pp. 8, figs. 3.

Circular No. 31, revised.—Blackleg: Its Nature, Cause, and Prevention. Pp. 23, fig. 1.

Circular No. 32.—The Imperial German Meat-Inspection Law. (In English and German.) Pp. 19.

Circular No. 35.—Treatment of Roundworms in Sheep, Goats, and Cattle. Pp. 8.

Circular No. 37.—Preliminary Report on Argentina as a Market for Pure-bred Cattle from the United States. Pp. 4.

Circular No. 39.—The Water Content of Creamery Butter. Pp. 4.

Circular No. 42.—Information Concerning Common Goats. Pp. 14.

Circular No. 46.—The International Dairy Federation and International Congresses. Pp. 14.

Circular 47.—A New Parasite (*Strongylus quadriradiatus*) Found in the Pigeon. Pp. 6, figs. 10.

Circular No. 48.—Scales of Points for Judging Cattle of Dairy Breeds. Pp. 14, fig. 1.

Circular No. 50.—Information for Importers of Animals for Breeding Purposes. Pp. 16.

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Circular No. 63.—A Review of Some Experimental Work in Pig Feeding. Pp. 51.

Circular No. 64.—A New Nematode (*Gongylonema ingluvicola*) Parasitic in the Crop of Chickens. Pp. 3, figs. 2.

Circular No. 65.—Ophthalmia in Cattle. Pp. 2.

Circular No. 66.—Osteomalacia, or Creeps in Cattle. Pp. 2.

Circular No. 67.—Abortion, or Slinking the Calf. Pp. 11.

Circular No. 68.—Diseases of the Stomach and Bowels of Cattle. Pp. 10.

Circular No. 69.—Texas Fever, or Southern Cattle Fever. Pp. 13.

Circular No. 70.—Tuberculosis of Cattle. Pp. 28.

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Circular No. 72.—New Facts Concerning the Etiology of Hog Cholera. Pp. 6.

Circular No. 73.—Distribution and Magnitude of the Poultry and Egg Industry. Pp. 22.

Circular No. 74.—United States and State Standards for Dairy Products, 1905. Pp. 2.

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Circular No. 78.—Glanders and Farcy. Pp. 12.

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Circular No. 80.—Dairy Officials, Associations, and Educational Institutions. Pp. 12.

DIVISION OF BIOLOGICAL SURVEY.

Circular No. 17.—Bird Day in the Schools. Pp. 4.

Circular No. 29.—Protection and Importation of Birds under Act of Congress approved May 25, 1900. Pp. 6.

Circular No. 31.—Information Concerning Game: Seasons, Shipment, and Sale. Pp. 20.

Circular No. 32, revised.—Directions for the Destruction of Prairie Dogs. Pp. 2.

Circular No. 34.—Laws for the Protection of Birds and Game in the District of Columbia. Pp. 8.

Circular No. 36.—Importation of Reptiles into Hawaii. Pp. 2.

Circular No. 37.—Regulations for the Importation of Eggs of Game Birds for Propagation. Pp. 2.

Circular No. 38.—Interstate Commerce in Birds and Game. Pp. 3.

Circular No. 39.—Regulations for the Protection of Game in Alaska. Pp. 6.

Circular No. 42.—Regulations for the Protection of Game in Alaska for the Year 1904. Pp. 6.

Circular No. 43.—Definitions of Open and Close Seasons for Game. Pp. 8.

Circular No. 47.—Recommendations of State Game Commissioners and Wardens for 1905. Pp. 12.

DIVISION OF BOTANY.

Circular No. 1.—Hungarian Brome Grass. Pp. 4, fig. 1.

Circular No. 2.—Nut Grass (*Cyperus rotundus*). Pp. 4, fig. 1.

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Circular No. 28.—Rubber Cultivation for Porto Rico. Pp. 12.

Circular No. 29.—Chicory Growing. Pp. 12, figs. 3.

Circular No. 30, revised.—List of Publications of the Division of Botany. Pp. 10.

BUREAU OF CHEMISTRY.

Circular No. 1.—The Manufacture of Sorghum Sirup. Pp. 3.

Circular No. 2.—Changes in and Additions to Methods of Analysis Adopted at 13th Annual Meeting of Association of Official Agricultural Chemists, Dec. 12, 1896. Pp. 6.

Circular No. 3, second revision.—Proposed Reforms in Fertilizer-Inspection Laws. Pp. 4.

Circular No. 4.—Changes in and Additions to Methods of Analysis Adopted at 13th and 14th Annual Meetings, Association of Official Agricultural Chemists, Dec. 11, 1897. Pp. 10.

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Circular No. 17.—The Useful Properties of Clays. Pp. 12.

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Circular No. 22.—Cooperative Work on the Titer Test, Association of Official Agricultural Chemists, 1904. Pp. 16.

Circular No. 23.—Methods for the Examination of Maple Products. Pp. 8.

BUREAU OF ENTOMOLOGY.

Circular No. 2.—The Hop Plant Louse and the Remedies to be Used Against It. Pp. 7, pls. 1, figs. 5.

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Circular No. 16.—The Larger Cornstalk Borer. Pp. 3, figs. 3.

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Circular No. 57.—The Greenhouse White Fly (*Aleyrodes vaporariorum* Westw.). Pp. 9, fig. 1.

Circular No. 58.—Report on the Gypsy Moth and the Brown-Tail Moth. July, 1904. Pp. 12, figs. 2.

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Circular No. 60.—The Imported Cabbage Worm. Pp. 8, figs. 6.

Circular No. 61.—Black Check in Western Hemlock. Pp. 10, figs. 5.

Circular No. 62.—The Cabbage Worm. Pp. 6, fig. 1.

Circular No. 63.—Root Maggots and How to Control Them. Pp. 7, figs. 5.

OFFICE OF EXPERIMENT STATIONS.

Circular No. 23, revised edition.—Key to Subject Index of Experiment Station Literature. Pp. 3.

Circular No. 28, revised.—Broom Corn. Pp. 4.

Circular No. 32, revised.—Report of Committee on Methods of Teaching Agriculture [first report]. Pp. 20.

Circular No. 34, revised.—Rules and Apparatus for Seed Testing. Pp. 24, figs. 11.

Circular No. 37, revised.—Second Report of Committee on Methods of Teaching Agriculture. Pp. 4.

Circular No. 39.—Methods of Teaching Agriculture [third report]. Pp. 7.

Circular No. 40.—Land-Grant and Other Colleges and the National Defense. Pp. 15.

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Circular No. 45.—Fifth Report of Committee on Methods of Teaching Agriculture. Pp. 8.

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Circular No. 47.—The Card Index of Experiment Station Literature. Pp. 2.

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Circular No. 52, revised.—A Few Good Books and Bulletins on Nature Study, School Gardening, and Elementary Agriculture for Common Schools. Pp. 4.

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Circular No. 57.—Supplemental Report on Drainage in the Fresno District, California. Pp. 5.

Circular No. 60.—The Teaching of Agriculture in the Rural Common Schools. Pp. 20.

Circular No. 61.—Statistics of Land-Grant Colleges and Agricultural Experiment Stations, 1904. Pp. 9.

Circular No. 62.—List of Abbreviations Employed in Experiment Station Record for Titles of Periodicals. Pp. 74.

Circular No. 63.—The Work of the Office of Experiment Stations in Irrigation and Drainage. Pp. 31.

BUREAU OF FORESTRY.

Circular No. 12.—Southern Pine: Mechanical and Physical Properties. Pp. 12, figs. 4.

Circular No. 15.—Summary of Mechanical Tests on Thirty-two Species of American Woods. Pp. 12.

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Circular No. 22, second revision.—Practical Assistance to Tree Planters. Pp. 12, figs. 5.

Circular No. 23, second revision.—Suggestions to Prospective Forest Students. Pp. 5.

Circular No. 25.—Forestry and the Lumber Supply. Pp. 14.

Circular No. 26.—Forest Fires in the Adirondacks in 1903. Pp. 15, map.

Circular No. 29.—Exhibit of Tree Planting on a Model Prairie Farm at Louisiana Purchase Exposition. Pp. 8, fig. 1.

Circular No. 30.—Exhibit of Forest Planting in Woodlots at the Louisiana Purchase Exposition. Pp. 11.

Circular No. 31.—Exhibit of Forest Nursery at Louisiana Purchase Exposition. Pp. 7, figs. 2.

Circular No. 32.—Progress Report on the Strength of Structural Timber. Pp. 28.

Circular No. 33.—What Forestry Means to Representative Men. Portions of Addresses Delivered at the American Forest Congress, Washington, January 3 to 6, 1905. Pp. 31.

Circular No. 34.—Practical Results of the Cup and Gutter System of Turpentining. Pp. 7, figs. 5.

Circular No. 35.—Forest Preservation and National Prosperity. Pp. 31.

DIVISION OF PUBLICATIONS.

Circular No. 1, revised.—Organization of the Department of Agriculture. Pp. 27. (Corrected to September 1, 1904.)

No. 179.—List of Publications of the Department of Agriculture for Sale by the Superintendent of Documents. Pp. 51. (Revised and corrected to February 1, 1905.)

No. 247.—List of Farmers' Bulletins and Circulars of Information Available for Free Distribution in the United States. Pp. 28. (Corrected to July 1, 1905.)

Monthly List of Publications.

This list is issued on the last day of each month and contains the titles of all publications issued by the Department of Agriculture during the month. The Monthly List is mailed regularly to all persons who request to have their names enrolled for that purpose.

OFFICE OF ROAD INQUIRY.

Circular No. 17.—Origin and Work of the Darlington Road League. Pp. 6, figs. 3.

Circular No. 18.—Report of Committee on Legislation, Adopted by the State Good Roads Convention held in Richmond, Va., October 10 and 11, 1895. Pp. 6.

Circular No. 19.—Traffic on the Country Roads. Opinions of Representative Men. Pp. 4.

Circular No. 21.—Methods of Constructing Macadamized Roads. Pp. 12.

Extract from a report prepared by the Chief Engineering Inspector of the Local Government Board of Great Britain.

Circular No. 22.—Tennessee Road Circular. Pp. 3.

Circular No. 23.—Money Value of Good Roads to Farmers. Pp. 4.

Circular No. 24.—Highway Maintenance and Repairs. Pp. 16.

Highway taxation; comparative results of labor and money systems; contract system of maintaining roads.

Circular No. 26.—Going in Debt for Good Roads. Pp. 6.

Circular No. 27.—Cost of Hauling Farm Products to Market or to Shipping Points in European Countries. Pp. 12.

Circular No. 30.—Repairs of Macadam Roads. Pp. 14.

Circular No. 32.—State Aid to Road Building in Minnesota. Pp. 12, figs. 5.

Circular No. 35.—Road Improvement in New York. Pp. 15.

Circular No. 37.—The Railroads and the Wagon Roads. Pp. 4.

OFFICE OF THE SECRETARY.

Circular No. 3.—Progress of Southern Agriculture. Pp. 12.

Circular No. 4.—Experiments on Living Animals. Pp. 2.

Circular No. 6.—Number, Status, and Compensation of Employees in the Department of Agriculture. Pp. 4.

Circular No. 8, revised.—Cooperative Grass and Forage Plant Investigations with State Experiment Stations. Pp. 16.

Circular No. 9.—Collection and Distribution of Grass Seed: Field Work. Pp. 11.

Circular No. 11.—Methods and Benefits of Growing Sugar-Beets. Pp. 27.

Circular No. 13.—Standards of Purity for Food Products. (Superseding Circular No. 10.) Supplemental Proclamation. Pp. 14.

BUREAU OF SOILS.

Circular No. 3.—The Soils of the Pecos Valley, New Mexico. Pp. 7.

Circular No. 4.—Soils of Salt Lake Valley, Utah. Pp. 11, fig. 1.

Circular No. 5.—Bulk Fermentation of Connecticut Tobacco. Pp. 10.

Circular No. 8, revised.—Reclamation of Salt Marsh Lands. Pp. 10.

Circular No. 11.—Reclamation of Alkali Land at Fresno, Cal. Pp. 9.

Circular No. 12.—Reclamation of Alkali Land near Salt Lake City, Utah. Pp. 8, fig. 1.

Circular No. 13.—The Work of the Bureau of Soils. Pp. 13.

Circular No. 14.—Opportunities for the Production of Cigar-Leaf Tobacco in East Texas and Alabama. Pp. 4.

Circular No. 15.—Manurial Requirements of the Leonardtown Loam Soil of St. Mary County, Md. Pp. 13.

BUREAU OF STATISTICS.

Circular No. 3.—The Farmers' Interest in Finance. Pp. 15, figs. 2.

Circular No. 6.—Cereal Crops of 1896. Pp. 12.

Circular No. 8.—The Cotton Crop of 1896–97. Pp. 14.

Circular No. 10.—The Brazos River (Texas) Flood of June-July, 1899, and its Effect on the Agriculture of the Submerged Region. Pp. 8.

Circular No. 11.—The World's Grain Crops of 1899. Pp. 8.

Circular No. 12.—Changes in Railroad Freight Classifications. Pp. 43.

Circular No. 14.—Estimates of Russian Crops. Pp. 10, map.

Circular No. 15.—Foreign Trade in Farm and Forest Products. Pp. 20.

Circular No. 16.—Foreign Trade in Farm and Forest Products, 1904. Pp. 19.

DIVISION OF VEGETABLE PHYSIOLOGY AND PATHOLOGY.

Circular No. 15.—Treatment for Sooty Mold of the Orange. Pp. 4.

Circular No. 16.—Danger of Introducing a Central American Coffee Disease into Hawaii. Pp. 4.

Circular No. 18.—A New Wheat Industry for the Semiarid West. Pp. 8, figs. 2.

EXTRACTS.

[Reprinted from the Yearbook for 1894.]

15. Some Practical Suggestions for the Suppression and Prevention of Bovine Tuberculosis. Pp. 14.
19. The Grain Smuts: Their Cause and Prevention. Pp. 12, figs. 8.
20. Grasses as Sand and Soil Binders. Pp. 16, figs. 11.
21. Sketch of the Relationship Between American and Eastern Asian Fruits. Pp. 6.
25. State Highways in Massachusetts. Pp. 8.
27. Tobacco Soils of Connecticut and Pennsylvania. Pp. 13, figs. 7.
28. Truck Lands of the Atlantic Seaboard. Pp. 15, figs. 3.
29. Conditions in Soils in the Arid Region. Pp. 10, fig. 1.
30. Weather Conditions of the Crop of 1894. Pp. 5, figs. 2.

[Reprinted from the Yearbook for 1895.]

37. (Part 1.) Four Common Birds of the Farm and Garden. Pp. 14, figs. 4.
37. (Part 2.) The Meadow Lark and Baltimore Oriole. Pp. 12, figs. 2.
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